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1 Session 5A: Approximate clustering via core-sets 80%

Mihai Bādoiu , Sariel Har-Peled , Piotr Indyk

Proceedings of the thiry-fourth annual ACM symposium on Theory of computing May 2002

In this paper, we show that for several clustering problems one can extract a small set of points, so that using those *core-sets* enable us to perform approximate clustering efficiently. The surprising property of those core-sets is that their size is independent of the dimension.Using those, we present a (1+ &egr;)-approximation algorithms for the *k*-center clustering and *k*-median clustering problems in Euclidean space. The running time of the new algorithms has linear or nea ...

2 Shock Graphs and Shape Matching 77%

Kaleem Siddiqi , Ali Shokoufandeh , Sven J. Dickinson , Steven W. Zucker

International Journal of Computer Vision November 1999

Volume 35 Issue 1

We have been developing a theory for the generic representation of 2-D shape, where structural descriptions are derived from the shocks (singularities) of a curve evolution process, acting on bounding contours. We now apply the theory to the problem of shape matching. The shocks are organized into a directed, acyclic shock graph, and complexity is managed by attending to the most significant (central) shape components first. The space of all such graphs is highly structured and can be ...

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1 Session 5A: Approximate clustering via core-sets 80%
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2 A Tutorial on Support Vector Machines for Pattern Recognition 80%
Christopher J. C. Burges
Data Mining and Knowledge Discovery June 1998
Volume 2 Issue 2

The tutorial starts with an overview of the concepts of VC dimension and structural risk minimization. We then describe linear Support Vector Machines (SVMs) for separable and non-separable data, working through a non-trivial example in detail. We describe a mechanical analogy, and discuss when SVM solutions are unique and when they are global. We describe how support vector training can be practically implemented, and discuss in detail the kernel mapping technique which is used to co ...

3 Robust Regressive Forecasting under Functional Distortions in a Model 77%
V. V. Maevskii , Yu. S. Kharin
Automation and Remote Control October 2002
Volume 63 Issue 11

Regressive forecasting is investigated under the assumption that the hypothetical parametric model of the regression function admits functional distortions. Explicit expressions of prediction risk (mean-square error) for four main types of distortions, guaranteed risk, and robustness coefficient for the least-squares prediction algorithm are derived. The minimax risk criterion is used to construct a robust prediction algorithm from iteratively computed M-estimates of the parameters of the hyp ...

4 A Rational Compromise in the System Problem of Disclosure of Conceptual Uncertainty 77%
N. D. Pankratova
Cybernetics and Systems Analysis November 2002

Volume 38 Issue 4

A general approach and methods are proposed for matched system solution of the following sequence of interconnected problems: the construction of a set of objective functions from empirical data under conceptually uncertain conditions, the determination of a Pareto set under the condition of a rational mutual matching of the set of values and the domain of objective functions, and a multicriterion choice of a rational solution on a Pareto set under the condition of a compromise between incons ...

5 Matrix rounding under the *Lp*-discrepancy measure and its application to digital halftoning 77%

Tetsuo Asano , Naoki Katoh , Koji Obokata , Takeshi Tokuyama

Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms January 2002

In this paper we study the problem of rounding a real-valued matrix into an integer-valued matrix to minimize an *Lp*-discrepancy measure between them. To define the *Lp*-discrepancy measure, we introduce a family *F* of regions (rigid submatrices) of the matrix, and consider a hypergraph defined by the family. The difficulty of the problem depends on the choice of the region family *F*. We first investigate the rounding problem by using integer programm ...

6 Session 11B: Girth and euclidean distortion 77%

Nathan Linial , Avner Magen , Assaf Naor

Proceedings of the thiry-fourth annual ACM symposium on Theory of computing May 2002

(MATH) In this paper we partially prove a conjecture that was raised by Linial, London and Rabinovich in \cite{llr}. Let G be a k-regular graph, $k \ge 3$, with girth g. We show that every embedding $f : G \to \ell_2$ has distortion $\Omega (\sqrt{g})$. The original conjecture which remains open is that the Euclidean distortion is bounded below by $\Omega(g)$. Two proofs are given, one based on semi-definite programming, and the other on Markov Type, a concept that considers random walks o ...

7 Shock Graphs and Shape Matching 77%

Kaleem Siddiqi , Ali Shokoufandeh , Sven J. Dickinson , Steven W. Zucker

International Journal of Computer Vision November 1999
Volume 35 Issue 1

We have been developing a theory for the generic representation of 2-D shape, where structural descriptions are derived from the shocks (singularities) of a curve evolution process, acting on bounding contours. We now apply the theory to the problem of shape matching. The shocks are organized into a directed, acyclic shock graph, and complexity is managed by attending to the most significant (central) shape components first. The space of all such graphs is highly structured and can be ...

8 Additive models, boosting, and inference for generalized divergences 77%

John Lafferty

Proceedings of the twelfth annual conference on Computational learning theory July 1999

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1 Optimal probabilistic allocation of customer types to servers 77%

S. C. Borst

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1995 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems May 1995 Volume 23 Issue 1

The model under consideration consists of *n* customer types attended by *m* parallel non-identical servers. Customers are allocated to the servers in a probabilistic manner; upon arrival customers are sent to one of the servers according to an *m × n* matrix of routing probabilities. We consider the problem of finding an allocation that minimizes a weighted sum of the mean waiting times. We expose the structure of an optimal allocation and describe for some special case ...

Results 1 - 1 of 1 **short listing**

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Prev Page 1 2 Next Page

1 A Unifying Lattice-Based Approach for the Partitioning of Systolic Arrays via LPGS and LSGP 84%
Karl-Heinz Zimmermann
Journal of VLSI Signal Processing Systems September 1997
Volume 17 Issue 1

Various methods for the synthesis of systolic arrays from signal and image processing algorithms have been developed in the past few years. In this paper, we propose a technique for the partitioning problem, the problem to synthesize systolic arrays whose size does not match the problem size. Our technique generalizes most of the known lattice-based approaches to the partitioning problem and combines the multiprojection method for the synthesis of systolic arrays with the locally seque ...

2 Parallel Implementation of a Central Decomposition Method for Solving Large-Scale Planning Problems 82%
J. Gondzio , R. Sarkissian , J. -Ph. Vial
Computational Optimization and Applications April 2001
Volume 19 Issue 1

We use a decomposition approach to solve three types of realistic problems: block-angular linear programs arising in energy planning, Markov decision problems arising in production planning and multicommodity network problems arising in capacity planning for survivable telecommunication networks. Decomposition is an algorithmic device that breaks down computations into several independent subproblems. It is thus ideally suited to parallel implementation. To achieve robustness and greater reli ...

3 Convergence and Error Bound for Perturbation of Linear Programs 82%
Paul Tseng
Computational Optimization and Applications April 1999
Volume 13 Issue 1-3

In various penalty/smoothing approaches to solving a linear program, one regularizes the problem by adding to the linear cost function a separable nonlinear function multiplied by a small positive

parameter. Popular choices of this nonlinear function include the quadratic function, the logarithm function, and the x ln(x)-entropy function. Furthermore, the solutions generated by such approaches may satisfy the linear constraints only inexactly and thus are optimal solutions of the reg ...

4 On the Superlinear Convergence Order of the Logarithmic Barrier Algorithm 80%

Jean-Pierre Dussault , Abdellatif Elafia

Computational Optimization and Applications April 2001

Volume 19 Issue 1

Since the pioneering work of Karmarkar, much interest was directed to penalty algorithms, in particular to the log barrier algorithm. We analyze in this paper the asymptotic convergence rate of a barrier algorithm when applied to non-linear programs. More specifically, we consider a variant of the SUMT method, in which so called extrapolation predictor steps allowing reducing the penalty parameter r_{k +1}\,{<}\,r_k are followed by some Newton correction steps. While obviously re ...

5 A Primal-Dual Algorithm for Monotropic Programming and its Application to Network Optimization 80%

A. Ouorou

Computational Optimization and Applications February 2000

Volume 15 Issue 2

This paper presents a new primal-dual algorithm for solving a class of monotropic programming problems. This class involves many problems arising in a number of important applications in telecommunications networks, transportation and water distribution. The proposed algorithm is inspired by Kallio and Ruszczyński approach for linear programming [M. Kallio and A. Ruszczyński, WP-94-15, IIASA, 1994]. The problem is replaced by a game using two different augmented Lagrangia ...

6 EWA: exact wiring-sizing algorithm 80%

Rony Kay , Gennady Bucheuv , Lawrence T. Pileggi

Proceedings of the 1997 international symposium on Physical design April 1997

7 Power Optimization in VLSI Layout: A Survey 80%

Massoud Pedram , Hirendu Vaishnav

Journal of VLSI Signal Processing Systems March 1997

Volume 15 Issue 3

This paper presents a survey of layout techniques for designing low power digital CMOS circuits. It describes the many issues facing designers at the physical level of design abstraction and reviews some of the techniques and tools that have been proposed to overcome these difficulties.

8 On the Log-exponential Trajectory of Linear Programming 77%

Jie Sun , Liwei Zhang

Journal of Global Optimization January 2003

Volume 25 Issue 1

Development in interior point methods has suggested various solution trajectories, also called central paths, for linear programming. In this paper we define a new central path through a log-exponential perturbation to the complementarity equation in the Karush-Kuhn-Tucker system. The behavior of this central path is investigated and an algorithm is proposed. The algorithm can compute an ε-optimal solution at a superlinear rate of convergence.

9 A Proximal Bundle Method Based on Approximate Subgradients 77%

Michael Hintermüller

Computational Optimization and Applications December 2001
Volume 20 Issue 3

In this paper a proximal bundle method is introduced that is capable to deal with approximate subgradients. No further knowledge of the approximation quality (like explicit knowledge or controllability of error bounds) is required for proving convergence. It is shown that every accumulation point of the sequence of iterates generated by the proposed algorithm is a well-defined approximate solution of the exact minimization problem. In the case of exact subgradients the algorithm behaves like ...

10 Segmentation of Pulmonary Nodule Images Using 1-Norm Minimization 77%

Thomas F. Coleman , Yuying Li , Adrian Mariano
Computational Optimization and Applications September 2001
Volume 19 Issue 3

Total variation minimization (in the 1-norm) has edge preserving and enhancing properties which make it suitable for image segmentation. We present Image Simplification, a new formulation and algorithm for image segmentation. We illustrate the edge enhancing properties of 1-norm total variation minimization in a discrete setting by giving exact solutions to the problem for piecewise constant functions in the presence of noise. In this case, edges can be exactly recovered if the noise is suffi ...

11 Relative Loss Bounds for On-Line Density Estimation with the Exponential Family of Distributions 77%

Katy S. Azoury , M. K. Warmuth
Machine Learning June 2001
Volume 43 Issue 3

We consider on-line density estimation with a parameterized density from the exponential family. The on-line algorithm receives one example at a time and maintains a parameter that is essentially an average of the past examples. After receiving an example the algorithm incurs a loss, which is the negative log-likelihood of the example with respect to the current parameter of the algorithm. An off-line algorithm can choose the best parameter based on all the examples. We prove bounds on the ad ...

12 Parallel Implementation of Successive Convex Relaxation Methods for Quadratic Optimization Problems 77%

Akiko Takeda , Katsuki Fujisawa , Yusuke Fukaya , Masakazu Kojima
Journal of Global Optimization October 2002
Volume 24 Issue 2

As computing resources continue to improve, global solutions for larger size quadrically constrained optimization problems become more achievable. In this paper, we focus on larger size problems and get accurate bounds for optimal values of such problems with the successive use of SDP relaxations on a parallel computing system called Ninf (Network-based Information Library for high performance computing).

13 A branch-and-bound algorithm for maximizing the sum of several linear ratios 77%

Takahito Kuno
Journal of Global Optimization January 2002
Volume 22 Issue 1-4

In this paper, we develop a branch-and-bound algorithm for maximizing a sum of p ($\geq slant 2$) linear ratios on a polytope. The problem is embedded into a 2p-dimensional space, in which a concave polyhedral function overestimating the optimal value is constructed for the bounding operation. The branching operation is carried out in a p-dimensional space, in a way similar to the usual rectangular

branch-and-bound method. We discuss the convergence properties and report som ...

14 A Modified SQP Method with Nonmonotone Linesearch Technique 77%

Ju-Liang Zhang , Xiang-Sun Zhang
Journal of Global Optimization October 2001
Volume 21 Issue 2

In this paper, a modified SQP method with nonmonotone line search technique is presented based on the modified quadratic subproblem proposed in Zhou (1997) and the nonmonotone line search technique. This algorithm starts from an arbitrary initial point, adjusts penalty parameter automatically and can overcome the Maratos effect. What is more, the subproblem is feasible at each iterate point. The global and local superlinear convergence properties are obtained under certain con ...

15 Conical Algorithm in Global Optimization for Optimizing over Efficient Sets 77%

Nguyen V. Thoai
Journal of Global Optimization December 2000
Volume 18 Issue 4

The problem of optimizing some contiuous function over the efficient set of a multiple objective programming problem can be formulated as a nonconvex global optimization problem with special structure. Based on the conical branch and bound algorithm in global optimization, we establish an algorithm for optimizing over efficient sets and discuss about the implementation of this algorithm for some interesting special cases including the case of biobjective programming problems.

16 Success Guarantee of Dual Search in Integer Programming: p-th Power Lagrangian Method 77%

D. Li , X. L. Sun
Journal of Global Optimization November 2000
Volume 18 Issue 3

Although the Lagrangian method is a powerful dual search approach in integer programming, it often fails to identify an optimal solution of the primal problem. The *p*-th power Lagrangian method developed in this paper offers a success guarantee for the dual search in generating an optimal solution of the primal integer programming problem in an equivalent setting via two key transformations. One other prominent feature of the *p*-th power Lagrangian method is that the dual search o ...

17 Generalized Convex Multiplicative Programming via Quasiconcave Minimization 77%

Brigitte Jaumard , Christophe Meyer , Hoang Tuy
Journal of Global Optimization April 1997
Volume 10 Issue 3

We present a new method for minimizing the sum of a convex function and a product of k nonnegative convex functions over a convex set. This problem is reduced to a k-dimensional quasiconcave minimization problem which is solved by a conical branch-and-bound algorithm. Comparative computational results are provided on test problems from the literature.

18 A Modified SQP Method and Its Global Convergence 77%

Guanglu Zhou
Journal of Global Optimization September 1997
Volume 11 Issue 2

The sequential quadratic programming method developed by Wilson, Han and Powell may fail if the quadratic programming subproblems become infeasible or if the associated sequence of search

directions is unbounded. In [1], Han and Burke give a modification to this method wherein the QP subproblem is altered in a way which guarantees that the associated constraint region is nonempty and for which a robust convergence theory is established. In this paper, we give a modification to the QP su ...

19 Text Categorization Based on Regularized Linear Classification Methods 77%

Tong Zhang , Frank J. Oles
Information Retrieval April 2001
Volume 4 Issue 1

A number of linear classification methods such as the linear least squares fit (LLSF), logistic regression, and support vector machines (SVM's) have been applied to text categorization problems. These methods share the similarity by finding hyperplanes that approximately separate a class of document vectors from its complement. However, support vector machines are so far considered special in that they have been demonstrated to achieve the state of the art performance. It is therefore worthwh ...

20 Session 5A: Approximate clustering via core-sets 77%

Mihai Bādoiu , Sariel Har-Peled , Piotr Indyk
Proceedings of the thiry-fourth annual ACM symposium on Theory of computing May 2002

In this paper, we show that for several clustering problems one can extract a small set of points, so that using those *core-sets* enable us to perform approximate clustering efficiently. The surprising property of those core-sets is that their size is independent of the dimension.Using those, we present a (1+ &egr;)-approximation algorithms for the *k*-center clustering and *k*-median clustering problems in Euclidean space. The running time of the new algorithms has linear or nea ...

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Prev Page 1 2 Next Page

21 Design and analysis of physical design algorithms 77%

Majid Sarrafzadeh , Elaheh Bozorgzadeh , Ryan Kastner , Ankur Srivastava
Proceedings of the 2001 international symposium on Physical design April 2001

We will review a few key algorithmic and analysis concepts with application to physical design problems. We argue that design and detailed analysis of algorithms is of fundamental importance in developing better physical design tools and to cope with the complexity of present-day designs.

22 Shock Graphs and Shape Matching 77%

Kaleem Siddiqi , Ali Shokoufandeh , Sven J. Dickinson , Steven W. Zucker
International Journal of Computer Vision November 1999
Volume 35 Issue 1

We have been developing a theory for the generic representation of 2-D shape, where structural descriptions are derived from the shocks (singularities) of a curve evolution process, acting on bounding contours. We now apply the theory to the problem of shape matching. The shocks are organized into a directed, acyclic shock graph, and complexity is managed by attending to the most significant (central) shape components first. The space of all such graphs is highly structured and can be ...

23 On Extensions of the Frank-Wolfe Theorems 77%

Zhi-Quan Luo , Shuzhong Zhang
Computational Optimization and Applications April 1999
Volume 13 Issue 1-3

In this paper we consider optimization problems defined by a quadratic objective function and a finite number of quadratic inequality constraints. Given that the objective function is bounded over the feasible set, we present a comprehensive study of the conditions under which the optimal solution set is nonempty, thus extending the so-called Frank-Wolfe theorem. In particular, we first prove a general continuity result for the solution set defined by a system of convex quadratic ine ...

24 Boosting as entropy projection 77%

Jyrki Kivinen , Manfred K. Warmuth

Proceedings of the twelfth annual conference on Computational learning theory July 1999

25 Efficient algorithms for geometric optimization 77%

Pankaj K. Agarwal , Micha Sharir
ACM Computing Surveys (CSUR) December 1998
Volume 30 Issue 4

We review the recent progress in the design of efficient algorithms for various problems in geometric optimization. We present several techniques used to attack these problems, such as parametric searching, geometric alternatives to parametric searching, prune-and-search techniques for linear programming and related problems, and LP-type problems and their efficient solution. We then describe a wide range of applications of these and other techniques to numerous problems in geometric optim ...

26 Tracking the best regressor 77%

Mark Herbster , Manfred K. Warmuth
Proceedings of the eleventh annual conference on Computational learning theory July 1998

27 Variance reduction applied to product form multiclass queuing networks 77%

Bruno Tuffin
ACM Transactions on Modeling and Computer Simulation (TOMACS) October 1997
Volume 7 Issue 4

Performance of product-form multiclass queuing networks can be determined from normalization constants. For large models, the evaluation of these performance metrics is not possible because of the required amount of computer resources (either by using normalization constants or by using MVA approaches). Such large models can be evaluated with Monte Carlo summation and integration methods. This article proposes two cluster sampling Monte Carlo techniques to deal with such models. First, for ...

28 Power minimization in IC design: principles and applications 77%

Massoud Pedram
ACM Transactions on Design Automation of Electronic Systems (TODAES) January 1996
Volume 1 Issue 1

Low power has emerged as a principal theme in today's electronics industry. The need for low power has caused a major paradigm shift in which power dissipation is as important as performance and area. This article presents an in-depth survey of CAD methodologies and techniques for designing low power digital CMOS circuits and systems and describes the many issues facing designers at architectural, logical, and physical levels of design abstraction. It reviews some of the techniques and tool ...

29 Modeling the benefits of mixed data and task parallelism 77%

Soumen Chakrabarti , James Demmel , Katherine Yelick
Proceedings of the seventh annual ACM symposium on Parallel algorithms and architectures July 1995

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1 Lagrangian bounds in multiextremal polynomial and discrete optimization problems 82%
Naum Z. Shor , Petro I. Stetsyuk
Journal of Global Optimization May 2002
Volume 23 Issue 1

Many polynomial and discrete optimization problems can be reduced to multiextremal quadratic type models of nonlinear programming. For solving these problems one may use Lagrangian bounds in combination with branch and bound techniques. The Lagrangian bounds may be improved for some important examples by adding in a model the so-called superfluous quadratic constraints which modify Lagrangian bounds. Problems of finding Lagrangian bounds as a rule can be reduced to minimization of nonsmooth c ...

2 On a Primal-Dual Analytic Center Cutting Plane Method for Variational Inequalities 80%
M. Denault , J. -L. Goffin
Computational Optimization and Applications January 1999
Volume 12 Issue 1-3

We present an algorithm for variational inequalities VI({\cal F}, Y) that uses a primal-dual version of the Analytic Center Cutting Plane Method. The point-to-set mapping {\cal F} is assumed to be monotone, or pseudomonotone. Each computation of a new analytic center requires at most four Newton iterations, in theory, and in practice one or sometimes two. Linear equalities that may be included in the d ...

3 EWA: exact wiring-sizing algorithm 80%
Rony Kay , Gennady Bucheuv , Lawrence T. Pileggi
Proceedings of the 1997 international symposium on Physical design April 1997

4 Determination of Head Pose and Facial Expression from a Single Perspective View by 77%
by Successive Scaled Orthographic Approximations
Chin-Chun Chang , Wen-Hsiang Tsai
International Journal of Computer Vision February 2002
Volume 46 Issue 3

Human faces are the main organs for expressing human emotion. In this study, a new iterative approach to analyzing the head pose and the facial expression of a human face from a single image is

proposed. The proposed approach extends the concept of successive scaled orthographic approximations, which was used to estimate the pose of a rigid object, to develop a method to estimate the parameters for a non-rigid object, namely, a human face. The implementation of the proposed method is simple&s ...

5 A Tutorial on Support Vector Machines for Pattern Recognition 77%

Christopher J. C. Burges
Data Mining and Knowledge Discovery June 1998
Volume 2 Issue 2

The tutorial starts with an overview of the concepts of VC dimension and structural risk minimization. We then describe linear Support Vector Machines (SVMs) for separable and non-separable data, working through a non-trivial example in detail. We describe a mechanical analogy, and discuss when SVM solutions are unique and when they are global. We describe how support vector training can be practically implemented, and discuss in detail the kernel mapping technique which is used to co ...

6 A New Approach for Weighted Constraint Satisfaction 77%

Hoong Chuin Lau
Constraints April 2002
Volume 7 Issue 2

We consider the Weighted Constraint Satisfaction Problem which is an important problem in Artificial Intelligence. Given a set of variables, their domains and a set of constraints between variables, our goal is to obtain an assignment of the variables to domain values such that the weighted sum of satisfied constraints is maximized. In this paper, we present a new approach based on randomized rounding of semidefinite programming relaxation. Besides having provable worst-case bounds for domain ...

7 Convex quadratic and semidefinite programming relaxations in scheduling 77%

Martin Skutella
Journal of the ACM (JACM) March 2001
Volume 48 Issue 2

We consider the problem of scheduling unrelated parallel machines subject to release dates so as to minimize the total weighted completion time of jobs. The main contribution of this paper is a provably good convex quadratic programming relaxation of strongly polynomial size for this problem. The best previously known approximation algorithms are based on LP relaxations in time- or interval-indexed variables. Those LP relaxations, however, suffer from a huge number of variables. As a result ...

8 A game theoretic framework for bandwidth allocation and pricing in broadband networks 77%

Haïkel Yaïche , Ravi R. Mazumdar , Catherine Rosenberg
IEEE/ACM Transactions on Networking (TON) October 2000
Volume 8 Issue 5

9 Convex delay models for transistor sizing 77%

Mahesh Ketkar , Kishore Kasamsetty , Sachin Sapatnekar
Proceedings of the 37th conference on Design automation June 2000

This paper derives a methodology for developing accurate convex delay models to be used for transistor sizing. A new rich class of convex functions to model gate delay is presented and the circuit delay under such a model is shown to be equivalent to a convex function. The richness of these functions is exploited to accurately model gate delay for modern designs. The delay model is incorporated into a transistor sizing algorithm based on TILOS. The models were characterized by using ...

10 Random walks with "back buttons" (extended abstract) 77%

Ronald Fagin , Anna R. Karlin , Jon Kleinberg , Prabhakar Raghavan , Sridhar Rajagopalan , Ronitt Rubinfeld , Madhu Sudan , Andrew Tomkins
Proceedings of the thirty-second annual ACM symposium on Theory of computing May 1999

11 Optimal scheduling of multiclass parallel machines 77%
Jay Sethuraman , Mark S. Squillante
Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms January 1999

12 Fast approximate graph partitioning algorithms 77%
Guy Even , Joseph (Seffi) Naor , Satish Rao , Baruch Schieber
Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms January 1997

13 Optimal stochastic scheduling in multiclass parallel queues 77%
Jay Sethuraman , Mark S. Squillante
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems May 1999
Volume 27 Issue 1

14 Efficient approximation algorithms for semidefinite programs arising from MAX CUT and COLORING 77%
Philip Klein , Hsueh-I Lu
Proceedings of the twenty-eighth annual ACM symposium on Theory of computing July 1996

15 Competitive routing in multiuser communication networks 77%
Ariel Orda , Raphael Rom , Nahum Shimkin
IEEE/ACM Transactions on Networking (TON) October 1993
Volume 1 Issue 5

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1 Solving the Sum-of-Ratios Problem by an Interior-Point Method 77%
Roland W. Freund , Florian Jarre
Journal of Global Optimization January 2001
Volume 19 Issue 1

We consider the problem of minimizing the sum of a convex function and of p≥1 fractions subject to convex constraints. The numerators of the fractions are positive convex functions, and the denominators are positive concave functions. Thus, each fraction is quasi-convex. We give a brief discussion of the problem and prove that in spite of its special structure, the problem is \cN\cP-complete even when only p=1 fraction is involved. We then show how the problem can be reduced t ...

2 A fully dynamic algorithm for planar 77%
Timothy M. Chan
Proceedings of the seventeenth annual symposium on Computational geometry June 2001
We show how to maintain the width of a set of n planar points subjec t to insertions and deletions of points in $O(\sqrt{n}\log^3n)$ amortized time per update. Previously, no fully dynamic algorithm with a guaranteed sublinear time bound was known.

3 Approximating the diameter, width, smallest enclosing cylinder, and minimum-width annulus 77%
Timothy M. Chan
Proceedings of the sixteenth annual symposium on Computational geometry May 2000

4 Efficient algorithms for geometric optimization 77%
Pankaj K. Agarwal , Micha Sharir
ACM Computing Surveys (CSUR) December 1998
Volume 30 Issue 4
We review the recent progress in the design of efficient algorithms for various problems in geometric optimization. We present several techniques used to attack these problems, such as parametric searching, geometric alternatives to parametric searching, prune-and-search techniques for linear programming and related problems, and LP-type problems and their efficient solution. We then describe a wide range of applications of these and other techniques to numerous problems in geometric optim ...

5 Bounded boxes, Hausdorff distance, and a new proof of an interesting Helly-type theorem 77%

Nina Amenta

Proceedings of the tenth annual symposium on Computational geometry June 1994

In the first part of this paper, we reduce two geometric optimization problems to convex programming: finding the largest axis-aligned box in the intersection of a family of convex sets, and finding the translation and scaling that minimizes the Hausdorff distance between two polytopes. These reductions imply that important cases of these problems can be solved in expected linear time. In the second part of the paper, we use convex programming to give a new, short proof of an interesting He ...

6 Helly theorems and generalized linear programming 77%

Nina Amenta

Proceedings of the ninth annual symposium on Computational geometry July 1993

Recent combinatorial algorithms for linear programming also solve certain non-linear problems. We call these Generalized Linear Programming, or GLP, problems. One way in which convexity has been generalized by mathematicians is through a collection of results called the Helly theorems. We show that the every GLP problem implies a Helly theorem, and we give two paradigms for constructing a GLP problem from a Helly theorem. We give many applications, including linear expected time algorithms ...

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Computer Aided Control System Design, 2002. Proceedings. 2002 IEEE International Symposium on , 2002
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[Abstract] [PDF Full-Text (423 KB)] **IEEE CNF**

2 **A performance-driven placement technique based on a new budgeting criterion**
Telle, G.E.; Knol, D.A.; Sarrafzadeh, M.;
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Wills, A.G.; Heath, W.P.;
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6 **Minimax end-to-end delay routing and capacity assignment for virtual circuit networks**
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7 **Hard-constrained signal feasibility problems**
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8 **Analog nonderivative optimizers**
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3 **On generating solid models of mechanical parts through fuzzy clustering**
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09179027	6269376	150	10/26/1998	METHOD AND SYSTEM FOR CLUSTERING DATA IN PARALLEL IN A DISTRIBUTED-MEMORY MULTIPROCESSOR SYSTEM	MODHA , DHARMENDRA SHANTILAL
09345579	6430713	150	06/30/1999	SYSTEM AND METHOD FOR CONSTRUCTING LOW COMPLEXITY BLOCK CODERS	MODHA , DHARMENDRA SHANTILAL
09394883	6260038	150	09/13/1999	CLUSTERING MIXED ATTRIBUTE PATTERNS	MODHA , DHARMENDRA SHANTILAL
09429650	6424971	150	10/29/1999	SYSTEM AND METHOD FOR INTERACTIVE CLASSIFICATION AND ANALYSIS OF DATA	MODHA , DHARMENDRA SHANTILAL
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60279027	Not Issued	020	03/26/2001	METHOD AND APPARATUS FOR PRESENTING RESULTS OF A SEARCH	MODHA, DHARMENDRA S.
09502452	Not Issued	123	02/11/2000	CLUSTERING-HYPERLLINKED DOCUMENTS USING WORDS AND LINKS	MODHA, DHARMENDRA SHANTILA
09528941	Not Issued	093	03/21/2000	CONCEPT DECOMPOSITION USING CLUSTERING	MODHA, DHARMENDRA SHANTILAL
09573010	Not Issued	083	05/18/2000	INTERACTIVE PROCESS FOR DOCUMENT HIERARCHY NAVIGATION AND QUERY REFINEMENT	MODHA, DHARMENDRA SHANTILAL
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29085655	Not Issued	161	03/27/1998	TAPE CUTTER	SPANGLER , WILLIAM
06515470	4572266	150	07/20/1983	BOAT WINDOW	SPANGLER , WILLIAM F.
06789779	4648435	150	10/21/1985	BOAT WINDOW	SPANGLER , WILLIAM F.
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